

Sub
F3

acid wh
comple
4.

10

—

20

25

at least
consisting
claim 1
S: 1, 3
claim 1
quence

NOS: 1, 3
to claim 1

59

15. A protein encoded by a nucleic acid that will hybridize under high stringency conditions to the complement of the nucleic acid sequence selected from the group consisting of SEQ ID NOS: 2 and 4.

16. An isolated polypeptide which specifically binds to an Edg protein according to claim 12.

17. A monoclonal antibody that reduces or eliminates the biological function of an Edg protein encoded by a nucleic acid that will hybridize under high stringency conditions to the nucleic acid or its complement selected from the group consisting of SEQ ID NOS: 2 and 4.

18. A method for screening for a bioactive agent capable of binding to an Edg protein, said method comprising combining an Edg protein and a candidate bioactive agent, and determining the binding of said candidate agent to said Edg protein, wherein said Edg protein is selected from the group consisting of SEQ ID NOS: 1 and 3.

19. A method for screening for a bioactive agent capable of modulating the activity of an Edg protein, said method comprising the steps of adding a candidate bioactive agent to a cell comprising an isolated nucleic acid encoding an Edg protein, and determining the effect of the candidate bioactive agent on a biological activity of said Edg protein, wherein said Edg protein is selected from the group consisting of SEQ ID NOS: 1 and 3.

20. The method of claim 19, wherein said biological activity is the binding of said Edg protein with its correlative ligand.

add B1